## EXECUTIVE RISK ASSESSMENT SUMMARY

HAZARD REPORT NUMBER: LW-PS-RAES-4B	DATE: 7/96
REV. LETTER:	REV. DATE:
PART NUMBER: 950001-205	LRU NUMBER: SED39129185
TITLE: Unable to release crew from restraint system.	1. SEVERITY: Catastrophic
	2. LIKELIHOOD OF OCCURRENCE: Improbable
	3. CLASSIFICATION: Controlled
CAUSE:	REDUNDANCY SCREENS:
B. Restraint system release mechanism fails to release	A - Pass
	B - Pass
	C - Pass
FMEA: LWS-PS-RAES-4B Criticality: 1R/2 Name/Quantity: Restraint release mechanism Function: Restrain crew member in the seat.	
Failure Mode:	Cause: Contamination, excessive wear,
Internal components of release button mechanism fail in engaged position.	piece-part defect
cipaged position.	Failure detection:
·	Crew member cannot release restraint harness.
Corrective Action: Crew loosens all manual belt	
adjustments to maximum for egress out of seat.	
EFFECT:	REMAINING PATHS:
Time to Effect: Seconds	Manual adjustment buckles
Time to Correct: Seconds	
Failure Effect:	•
Crew member hampered from egressing from seat.	
Possible crew member injury/loss of crew.	
CONTROL/RETENTION RATIONALE:	
DESIGN: 1. Designed for minimum access for contamina	ation,
3. Restraint system harness will be designed to withstand	
TEST: 2. Functional test performed before and after each INSPECTION:	certification test and acceptance testing with QA participation.
FAILURE HISTORY:	
OPERATIONAL USE:	
MAINTAINABILITY:	

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## VERIFICATION:

- 1. During assembly all parts are checked to be clean.
- 2a. PDA 4.2.8.6, PIA 4.2.8.6 Verify that the fittings for the shoulder and lap belts will release from the buckle. With a small preload on the harness system, 20 +/- 2 pounds, release the fittings from the buckle by using one hand and turn the buckle release clockwise. Repeat for counter-clockwise.
- 2b. OMRSD V66AAO.022-K, L Verify locking capability of pilot/cmdr lap belt/shoulder harness buckle, engage and disengage.
- A vibration test has been performed (QVT TPS FV9620123) to the acceptance levels listed below and approved by EM2:

Frequency Range (Hz)	Level		
20	0.00053 g	2/Hz	
150	0.030 g	(2/Hz	
350	0.030 g	2/Hz	
1000	0.030 g	2/Hz	
2000	0.0075 g	2/Hz	Overal! = 6.1 grms